

NOVEMBER/DECEMBER 2024

**23PMB12 — IMMUNOLOGY, IMMUNOMICS
AND MICROBIAL GENETICS**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define – Antigenicity.
2. What is Innate Immunity?
3. Explain – TCR.
4. Define – Immunoglobulin.
5. What is meant by Adjuvants?
6. Expand – SRID and ODD.
7. What is meant by telomere?
8. Define – Centromere.
9. Mention the two types of transduction.
10. Define – Gene transfer mechanism.



SECTION B — ($5 \times 5 = 25$ marks)

Answer ALL questions.

11. (a) Write down the detailed note on MHC molecules.

Or

- (b) Explain in detail about Acquired Immunity.

12. (a) Explain in detail about alternative pathway of complement system.

Or

- (b) Give an account on Theories of antibody production.

13. (a) Describe in detail about Type 1 Hypersensitivity.

Or

- (b) Explain in detail about the working procedure and types of ELISA.

14. (a) Give an account on Methylation, Acetylation and Phosphorylation.

Or

- (b) Write about the Eukaryotic genome structure.

15. (a) Explain in detailed about transformation.

Or

- (b) Give an account on Conjugation.

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Give detailed account on cells of the immune system with sketch.

17. Write down the production and application of Monoclonal and polyclonal antibodies.

18. Write about the types of Immunoelectrophoresis with neat diagram.

19. Write an elaborate account on Prokaryotic genome structure.

20. Describe in detail about mechanism and types of transposition reactions.

